

QUESTIONS AND ANSWERS

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I. FREQUENTLY ASKED QUESTIONS:

Q1. IF I HAVE QUESTIONS ABOUT THIS FUNDING ANNOUNCEMENT, WHO DO I CONTACT?

ANSWER: Please see the FOA guidance on submitting FOA content questions and response publication. Applicants may submit questions regarding this ARPA-E's Funding Opportunity Announcement (FOA) to ARPA-E-CO@hq.doe.gov. All emails must include the FOA name and number in the subject line. The cover page and Executive Summary of the Funding Opportunity Announcement state the deadlines for submitting questions to ARPA-E-CO@hq.doe.gov.

Q2. HOW WILL I RECEIVE A RESPONSE TO QUESTIONS SUBMITTED TO ARPA-E-CO@HQ.DOE.GOV ABOUT THIS FOA?

ANSWER: Responses are posted in the "Frequently Asked Questions" section of ARPA-E's website. There are general FAQs and a FAQ page for each FOA.

ARPA-E will post responses on a weekly basis to any questions that are received.

ARPA-E will cease to accept questions approximately 5 business days in advance of each submission deadline. Responses to questions received before the cutoff will be posted approximately one business day in advance of the submission deadline. ARPA-E may re-phrase questions or consolidate similar questions for administrative purposes.

Q3. WILL ARPA-E POST A RESPONSE TO EVERY QUESTION SUBMITTED TO ARPA-E-CO@HQ.DOE.GOV?

ANSWER: No. ARPA-E will only post responses to questions that have not already been addressed by a published FAQ. Also, ARPA-E may consolidate similar questions for administrative purposes.

Q4. IF I HAVE QUESTIONS ABOUT ARPA-E EXCHANGE, WHO DO I CONTACT?

ANSWER: Applicants may submit questions regarding ARPA-E's online application portal, ARPA-E eXCHANGE, to ExchangeHelp@hq.doe.gov. All emails must include the name and number of the Funding Opportunity Announcement in the subject line.

Q5. CAN I SPEAK OR MEET WITH THE ARPA-E PROGRAM DIRECTOR OR OTHER ARPA-E PERSONNEL ABOUT THIS FUNDING OPPORTUNITY ANNOUNCEMENT?

ANSWER: No. Upon the issuance of this Funding Opportunity Announcement (FOA), ARPA-E Programs and other ARPA-E personnel are prohibited from communicating (in writing or otherwise) with Applicants, or potential Applicants, regarding the FOA. This "quiet period" remains in effect until ARPA-E's public announcement of its project selections. During the "quiet period," Applicants may submit questions regarding the FOA to ARPA-E-CO@hq.doe.gov with the FOA name and number in the subject line. Applicants may also submit questions regarding ARPA-E's online application portal, ARPA-E eXCHANGE, to ExchangeHelp@hq.doe.gov with the FOA name and number in the subject line. ARPA-E will not accept or respond to communications received by other means (e.g., fax, telephone, mail, hand delivery). Emails sent to other email addresses will be disregarded.

Q6. CAN A PERSON BE PI ON ONE PROPOSAL AND A CO-PI ON A SECOND SEPARATE PROPOSAL?

ANSWER: Yes, but the applications must be scientifically distinct from one another.

Q7. MAY APPLICANTS SUBMIT MORE THAN ONE CONCEPT PAPER TO THIS FUNDING OPPORTUNITY?

ANSWER: Yes, but each Concept Paper submission must be scientifically distinct.

Q8. I HAVE DEVELOPED A TECHNOLOGY THAT MAY BE A GOOD FIT FOR THIS FUNDING OPPORTUNITY. WILL ARPA-E PLEASE REVIEW THE ATTACHED PROJECT INFORMATION AND LET ME KNOW IF I SHOULD MAKE A SUBMISSION TO THIS FUNDING OPPORTUNITY.

ANSWER: No. Applicants must review the Technical Requirements of this funding opportunity announcement to determine if their technology warrants a submission to ARPA-E. See e.g. Section I.D ("Technical Categories of Interest") and Section I.F (Applications Specifically Not of Interest) of the FOA.

II. Questions for week ending: NOVEMBER 29, 2013

Q9. WILL ARPA-E CONSIDER MOLTEN CARBONATE FUEL CELLS AND FLOW BATTERIES UNDER THIS FOA?

ANSWER: Please see the answer for Question 8.

Q10.A I WOULD LIKE TO INQUIRE ABOUT THE POTENTIAL FOR OUR UNIQUE TECHNOLOGY TO QUALIFY FOR CONSIDERATION UNDER DE-FOA-0001026 REBELS *** WOULD SUCH A PROJECT FALL WITHIN THE SCOPE OF THE REBELS FOA GENERALLY AND WOULD IT QUALIFY UNDER EITHER CATEGORY 1, 2 OR 3?**

ANSWER: Please see the answer for Question 8.

Q10.B IS IT POSSIBLE TO PRESENT MULTIPLE PROJECT SCENARIOS TO ARPA-E TO PROVIDE SOME SELECTION AGILITY ON THE SCOPE, SCALE, AND TIMING OF A PROJECT ?

ANSWER: No.

Q10.C WOULD IT BE POSSIBLE TO SCHEDULE A CONFERENCE CALL WITH THE PROGRAM DIRECTOR RESPONSIBLE FOR THIS FOA

ANSWER: No. Please see the answer to Question 5 above.

Q11. I'M REFERRING TO YOU FROM THE RESEARCH AUTHORITY OF THE **. WE WOULD LIKE TO INQUIRE REGARDING THIS FOA, ARE OUR RESEARCHERS ELIGIBLE TO BE PART OF THE CONSORTIUM IN THIS FOA?**

ANSWER: ARPA-E will not provide pre-submission assessments or determinations regarding an applicant's eligibility to apply to a FOA. Applicants must review the eligibility information provided in the FOA and independently determine whether they are eligible to apply for funding. Please see Section III.A ("Eligible Applicants") for the eligibility criteria for this FOA.

Q12. I AM LOOKING FOR A FILLABLE CONCEPT PAPER TEMPLATE THAT HAS BEEN DESCRIBED ON PAGE 37 OF DE-FOA-0001026 REBELS PROGRAM.

ANSWER: Applicants can access the Concept paper template from the "Required Application Documents" section of the Funding Opportunity Announcement on the ARPA-E Funding Opportunity Exchange web site (<http://ARPA-E-FOA.energy.gov>). Click on the link "View Template Application Documents" within the section of ARPA-E's page specific to the REBELS FOA.

Q13. *** IS A CURRENT RECIPIENT OF DOE FUNDING THROUGH THE DOE SECA PROGRAM. DOES THIS EXCLUDE ***** FROM SUBMITTING A CONCEPT PAPER TO THE REBELS FOA?**

ANSWER: In general, participation in an activity supported by a DOE office other than ARPA-E does not automatically exclude an entity from applying to ARPA-E's FOAs. However, Concept Papers that are not scientifically distinct from activities supported elsewhere, including within DOE, will be deemed nonresponsive and will not be reviewed or considered under this FOA. Please see Section I.F ("Applications Specifically Not of Interest") of the FOA.

III. Questions for week ending: DECEMBER 13, 2013

Q14. WOULD THE FOLLOWING BE CONSIDERED RESPONSIVE TO THE FOA?

ANSWER: Please see the answer for Question 8.

Q15.A. ARE FFRDCS ELIGIBLE TO SUBMIT A CONCEPT PAPER TO THE REBELS FOA?

ANSWER: Yes. FFRDCs are eligible to apply for funding as the lead organization for a Project Team or as a member of a Project Team, but not as a Standalone Applicant. Please see Section

III.A.2 (Eligibility Information – Domestic Entities) of the FOA for more information on which types of entities are eligible for this FOA.

Q15.B. SHOULD A FFRDC THAT INTENDS TO ESTABLISH A PROJECT TEAM IN ORDER TO MEET THE COST SHARING REQUIREMENTS FOR THE REBELS FOA, BUT HAS NOT FINALIZED ITS TEAMING ARRANGEMENTS YET, DISCLOSE THIS INFORMATION TO ARPA-E IN THE CONCEPT PAPER? IF SO, SHOULD TEAMING INFORMATION IN THE CONCEPT PAPER TEMPLATE BE LEFT BLANK AT THE TIME OF SUBMISSION, OR SHOULD IT BE POPULATED WITH AN INDICATOR THAT THE PROJECT TEAM STRUCTURE IS NOT FINAL SUCH AS 'TO BE DETERMINED' OR 'IN NEGOTIATION', ETC.?

ANSWER: Given the circumstances above, an applicant (FFRDC or otherwise) should disclose in the Concept Paper its intentions to establish a Project Team and any potential Project Team Members, and not leave the Concept Paper template blank. If the Concept Paper is encouraged by ARPA-E, the applicant may make modifications to its Project Team in its Full Application. Please carefully review Section III.A.2 (Eligibility Information – Domestic Entities) of the FOA which contains the eligibility requirements for FFRDCs and Section III.C.2 (Compliant Criteria) for the compliance criteria that ARPA-E will apply to each Concept Paper submission, which includes meeting the eligibility requirements of the FOA.

IV. Questions for week ending: DECEMBER 20, 2013

Q16. *** PLANS TO PROPOSE A SYSTEM WHICH WILL ***** . WOULD THIS BE AN ACCEPTABLE SUBMISSION TO THE REBELS FOA?**

ANSWER: Please see the answer to Question 8 above.

Q17.A ARE THE PERFORMANCE TARGETS FOR CATEGORY 1 "ITFCS FOR DG APPLICATIONS" (ON PAGE 16) FOR A STACK OR A SYSTEM?

ANSWER: As stated in the FOA, Category 1 projects should focus on two of the three subsystems in an overall fuel cell system: the fuel processor and the fuel cell stack. Thus, Category 1 technical performance targets apply to the system of a fuel processor and the stack. Please see Section I.D. (Technical Categories of Interest) of the FOA for more information on technical performance targets for Category 1 submissions.

Q17.B CAN THE TECHNICAL PERFORMANCE TARGETS INCLUDED IN OUR CONCEPT PAPER BE PROJECTIONS?

ANSWER: Yes. ARPA-E recognizes that an applicant may not have existing data for the performance targets; therefore, proposed targets submitted in a Concept Paper may be projections based on sound scientific principles.

Q18. IN THE SECTION OF “SUPPLEMENTAL EXPLANATION OF CATEGORY 3 PERFORMANCE TARGETS” (ON PAGE 22), THE FOA STATES THAT THE “MINIMUM CELL AREA FOR DEMONSTRATION OF LIQUID HYDROCARBON PRODUCTION MUST BE AT LEAST 100 CM² (ROUGHLY 4”X4”)”. DOES THIS MEAN THAT THE CELL IS RESTRICTED TO BE A PLANAR DESIGN? ARE OTHER CELL DESIGNS ALSO ACCEPTABLE, SUCH AS A TUBULAR CELL WITH AN EQUIVALENT ACTIVE AREA OF 100 CM²?

ANSWER: In Category 3, ARPA-E will consider all proposed configurations that meet the FOA's technical performance targets and have an active cell area of at least 100 cm². Please see Section I.E (Technical Performance Targets – Category 3 ITFCs with Fuel Production Capability) of the FOA for more information on Category 3 technical performance targets and requirements.

V. Questions for week ending: JANUARY 3, 2014

Q19. CAN DOE TELL ME WHETHER MY IDEAS FOR CATEGORY 2 OF THE FOA ARE THE PROPER FOCUS OF A WHITE PAPER [CONCEPT PAPER]?

ANSWER: Please see the answer to Question 8 above.

Q20. DO WE NEED TO INCLUDE COMMITMENT LETTERS FROM OUR PARTNERS WITH OUR CONCEPT PAPER?

ANSWER: No. Applicants are not required to provide cost share commitment letters with Concept Paper submissions. However, during the Full Application stage of the REBELS FOA, Applicants will be required to provide written assurance of their cost share commitment in the Business Assurances Form as part of their Full Application. Please see Section IV.C (Content and Form of Concept Papers) of the FOA for more information on the Concept Paper submission requirements for this FOA.